JOINT BATTLE DAMAGE ASSESSMENT JOINT TEST AND EVALUATION BACKGROUND PAPER

SUBJECT. Joint Battle Damage Assessment (JBDA) Joint Test And Evaluation (JT&E)

SPONSOR.
Joint Battle Damage Assessment (JBDA) is sponsored by the United States Army Training and Doctrine Command and is chartered by the Director, Strategic and Tactical Systems, Office of the Secretary of Defense.

BACKGROUND.
The JT&E program evaluates concepts and addresses needs and issues that occur in joint military operations. The JT&E program consists of three phases: (1) the Nomination – the entry point to the JT&E program, (2) the Joint Feasibility Study – to determine whether nominated studies are both feasible and necessary, and (3) the JT&E itself. JBDA successfully completed Phases 1 & 2 in early 2000, and was formally chartered as an OSD-directed JT&E in July 2000. The JBDA JT&E is co-located with the Joint Warfighters (JWF) JT&E at a facility in Suffolk, VA. Both the JBDA JT&E and the JWF JT&E are under the direction of Lieutenant Colonel Fred Biel (USA),

According to Joint Publication 1-02, BDA is the timely and accurate estimate of damage resulting from the application of military force, either lethal or non-lethal, against a predetermined objective. Battle damage assessment can be applied to the employment of all types of weapon systems throughout the range of military operations. BDA is primarily an intelligence responsibility with required inputs and coordination from the operators, and is composed of physical damage assessments, functional damage assessments, and target system assessments.

A JBDA-sponsored Joint Working Group (JWG) developed the following Problem Statement. JWG membership included CINC and defense agency representatives, as well as other BDA Subject Matter Experts from throughout the DOD. The Joint Staff/J2-T, the DOD's single POC for BDA matters, has also approved the Problem Statement. (J2T is also the operational mentor of the JBDA JT&E.)

> Study of the joint targeting process in support of the Joint Force Commander indicates that, while enhancements have been implemented, battle damage assessment still needs improvement to provide effective and timely assessments of fixed and mobile* targets.

PURPOSE.
The purpose of JBDA is to improve BDA support to the Joint Force Commander in order to facilitate operational decision-making.

* Mobile targets include maneuver forces as well as high-value relocatable targets such as SCUD TELs.

Based on the Problem Statement, the following broad Issues will be addressed by the JBDA JT&E.

1. How much will changes in the *Mobile Target BDA Process* improve support to the JFC?
2. How much will changes in the *Fixed Target BDA Process* improve support to the JFC?

JBDA focuses on BDA reporting (task accomplishment) and the impact this reporting has on supporting key decision points (mission outcomes). The program is concerned with the ability to provide accurate BDA in time to support these decision points, and refining the process that produces them. The JBDA JT&E will:

- Identify, test, and assess current BDA processes and procedures; and recommend and evaluate enhancements.
- Characterize current BDA training and manpower authorizations for unified command, Service, and agency BDA personnel and recommend and evaluate training improvements.
- Define systems and architectures interoperability issues, and nominate and test fixes.

Measurements will be conducted during JT&E testing to determine the joint task force's ability to process and act on information. Emphasis will be placed on measuring the timeliness, accuracy, and completeness of actions required to perform the function of BDA. All functions and terms are extracted from approved joint Publications, where possible.

PROGRAM ORGANIZATION.

The JBDA program is organized around an Army Joint Test Director plus an additional 26 military personnel from all four services, 32 contractors, and 5 civilians.

TEST APPROACH.

JBDA will use a four-year test schedule. JBDA will observe a major exercise in 2001, baseline the exercise in 2002, test enhancements in 2003 and write the final report in 2004. JBDA will use United States Forces Korea (USFK) Ulchi Focus Lens (UFL) exercise for the primary tests. Ramp up of personnel, military and civilian will occur in the first year as will most test planning. While UFL 02 will be the baseline test for JBDA, JBDA will be observing both UFL 00 and UFL 01. This observation, along with the experiences of the co-located Joint Warfighters (JWF) JT&E, should enhance JBDA collection activities at UFL 02 and 03. In addition, JBDA will test training enhancements using mini-tests at multiple locations.

ACCOMPLISHMENTS.

- Hosted first JBDA Joint Working Group
- Developed perceived "as-is" BDA IDEF0 models for NMJIC, USFK, and USFK component-level BDA processes. NMJIC product provided to Joint Staff/J8 Strike-JWCA.
- Contributed to USFK and USCENTCOM BDA CONOPs

- Completed BDA Characterization study – examining BDA operations through Desert Storm, Desert Fox, and Allied Force
- Briefed and secured support of Unified Commands, DOD agencies, and Services
- Completed the Joint Feasibility Study Report (JFSR)
- Reviewed Jt Pubs 2-01.1 and 3-60 as targeting and BDA subject matter experts

PLANNED ACTIVITIES.

Continue to brief CINCs, service headquarters, major components, and General Officer Steering Committee (GOSC) members……..……..…Sep 00-Sep 01
Observe Union Flash (Europe)……...May 01
Observe Ulchi Focus Lens 01 – including Federated BDA (Korea and other locations)…….…….……..…..Aug-Sep 01
Submit Program Test Plan (PTP) for approval……....Dec 01
Submit Data Management and Analysis Plan (DMAP) for approval.……..……...Dec 01
Submit Detailed Test Plan for Ulchi Focus Lens 02…….Jan 02

LEGACY PRODUCTS.

Legacy products could include but are not limited to the following areas:

1. Documentation of the BDA process
2. Draft Tactics Techniques and Procedures (TTPs) in place at Warfighting CINCs and Federated Partners
3. Requirements for future technologies
4. Enhanced use of functional and systems analytical procedures
5. Improved use of existing BDA software tools and techniques
6. BDA personnel management
7. Training
8. Test data showing quantifiable improvement in BDA

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